I^st and Final Bill   Work code. 005-19-000008

M. A. R. 57 (Rule 116)   Est Cost Rs. 15.00 Lakhs

Measurement Book

No. B 500711

Serial No. Construction of RO plant in Ward No. 05

Name of Work Byatarayanapura From Sub division To

Name of Contractor of nature of Agency Sri. D.V. Kumar.

Date of commencement of work No. 5th Main Road. L.G. Ramanna Lay out. Laggere Bangalore-560056

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Work order No.. BBMP/EE/BTP/WO/25/2019.20 Date. 22.05.2019						
	① Earthwork excavation for foundation of buildings and water supply sanitary lines and electrical conduits either in pits or in trenches 1.50 mtr and above in width in ordinary soil not exceeding 1.50 mtr in depth including dressing the bottom and sides of pits and trenches stacking						

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MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	the excavated soil clear from edges of excavation with lead up to 50 mtr after breaking clods complete as per specification.						
	As per pre-measurement recorded vide page no.. 500770 in this MB.						
	Rate. 176:56					25.36 M³	4477:56
②	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement at 180 kgs with 40mm and 40 mm and down size graded granite metal						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500712

Serial No. ....

Name of Work .... From.............................. To..............................

Name of Contractor of nature of Agency ....

Date of commencement of work ....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Coarse aggregate of 0.85 cum and fine aggregate of 0.85 cum machine mixed concrete laid in layers not exceeding 15 cms thick well compacted in foundation including cost of materials labour hire of machinery curing complete as per specification.						
	As per pre-measurement recorded vide page no.. 500770 to 500771 in this MB.						
	Rate. 4546:75					4.15 M³	18869:01

1) [illegible]
[illegible]
2) [illegible]
[illegible]

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
③	Providing and constructing granite/trap/boulder size stone masonry in foundation with CM 1:6 stone hammered dressed in courses not less than 20 cm high sound stones of 2.0 Mtr apart in each course including cost & materials labour curing complete as per specification.						
	As per Pre-measurement recorded vide Page No. 500771 in this MB					2.80 M³	
	Rate · 3911:50						10952:20

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500713

Serial No. ....
Name of Work .... From .... To ....
Name of Contractor of nature of Agency ....
Date of commencement of work ....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
④	Providing and constructing granite/trap/boulder size stone masonry in basement with cement mortar 1:6 edges & stone chisel dressed in courses not less than 15 cm high sound stones of two mtr apart in each course including cost & materials labour curing complete as per specification etc- complete.	1	13.60	0.60	0.55	4.48	
	Deduction columns	4	1.20	0.60	0.55	1.58	

1) [illegible]
[illegible]

2) [illegible]
[illegible]

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
			Limited to			2.90 ~~2.89~~ 1.95	m^3 m^3
	Rate. 4675:70						~~13512.77~~ 9118:00
⑤	Filling available excavated earth (excluding rock) in sides & foundation upto plinth in layers not exceeding 20cms in depth compacted each deposited layers by ramming after watering with lead up to 50 Mtr and lift upto 1.50 Mtr including all labour charges complete as per specification.						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500714

Serial No. ……………………
Name of Work …………………… From…………………… To……………………
Name of Contractor of nature of Agency ……………………
Date of commencement of work ……………………

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Quantity vide item no.					①	
	Rate. 118:60					25.36	m^3 3007:69
⑥	Providing and constructing load bearing wall with solid concrete blocks of size 400×150×200mm having block density not less than 1800 kg/m³ and having a minimum average compressive strength 400 N/mm conforming to IS 2185 (Part 1) 2005 and constructed with CM 1:4 as per IS 2572-2005						

MEASUREMENT BOOK

Date 1	Full description, etc. of work 2	Dimensions Number 3	 Length 4	 Breadth 5	 Depth 6	Contents 7	Reference to last Measurement 8
	including cost of materials labour charges Scaf curing complete as per specification.						
	Long walls	2	4.75	-	2.75	26.12	
	Short walls	2	2.05	-	2.75	11.27	
	Parapet	2	4.35	-	0.60	5.22	
		2	2.05	-	0.60	2.46	
						45.07	m²
	Deduction.						
	R.S.	1	1.60	-	2.70	4.32	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500715

Serial No. ....
Name of Work .... From.................... To....................
Name of Contractor of nature of Agency ....
Date of commencement of work ....

Date 1	Full description, etc. of work 2	Dimensions Number 3	 Length 4	 Breadth 5	 Depth 6	Contents 7	Reference to last Measurement 8
	Window. W	1	0.60	-	0.90	0.54	
	Lintel						
	CPFC	2	4.75	-	0.15	1.42	
10/7/20	works 10/7/2020	2	2.05	-	0.15	0.61	
						6.89	m²
	Net Qty	(45.07	- 6.89)	:		38.18	m²
	Rate. 847:30		limited to			35.70	m²

30248.61

MEASUREMENT BOOK

Date 1	Full description, etc. of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
⑦	Providing and laying cement concrete using 20mm and down size granite coarse aggregate and fine aggregate of ready mixed concrete(RMC M20 for RCC works laid in 150mm thick layers and well compacted vibrating curing including column footing main and secondary beams with all lead and lifts etc.. complete (excluding of cost of steel and fabrication charges).						
	Columns Footing	4	1.20	1.20	0.65	3.74	
		4	0.45	0.20	3.50	1.26	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500716

Serial No. ....

Name of Work .... From .... To ....

Name of Contractor of nature of Agency ....

Date of commencement of work ....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Plinth Beam.	2	4.75	0.20	0.30	0.57	
		2	2.05	0.20	0.30	0.24	
	Lintel.	2	4.75	0.20	0.15	0.28	21/7/20
	Roof Beams.	2	2.05	0.20	0.15	0.12	
		1	13.60	0.20	0.20	0.54	
	RLC Roof.	1	6.00	2.75	0.15	2.47	21/7/2020
	Rate. 5492:10					9.22 M³	50637:16

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
⑧	Providing TMT steel reinforcement for RCC work including straightening cutting bending hooking placing in position lapping and or welding wherever required tying with binding wire and anchor to the adjoining members wherever necessary complete as per design (laps hooks and wastage shall not be measured and paid) cost of necessary labour charges of measurement complete as per specification. As per pre. measurement recorded vide page no.. 500772 to 500773 in this MB.						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500717

Serial No. ....
Name of Work .... From.................................... To....................................
Name of Contractor of nature of Agency ....
Date of commencement of work ....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Rate . 56619:00					0.67 Tonne	
							37934:73
⑨	Providing and removing centering shuttering strutting propping etc.. and removal of form work for vertical surface such as walls of any thickness including attached plasters buttresses plinth and string courses cost of all materials labour complete as per specification.						

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	As per Pre. measurment recorded vide Page no.. 500774 to 500775 in Prev MB.						
	Rate - 273:72					65.79 m²	18008:03
⑩	Providing 12mm thick cement plaster in single coat with cement morter 1:3 to ceiling including rounding of corners wherever required smooth rendering providing and removing scaffold including cost of materials labour curing comm as per specification.						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500718

Serial No. ....

Name of Work .... From .... To ....

Name of Contractor of nature of Agency ....

Date of commencement of work ....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		1	4.35	2.05	-	8.91	
		1	2.75	1.25	-	3.43	
		1	4.75	0.30	-	1.42	
	Rate · 180:30					13.76 m²	2480:92
⑪	Providing 20mm thick cement plaster in single coat with cement mortar 1:6 to stone masonry and concrete surface including rounding off corners						

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	[illegible] [illegible] smooth rendering providing and removing scaffolding including cost of material labour curing complete as per specification.						
	Outside Plastering	2	4.35	-	2.75	23.92	
		2	2.05	-	2.75	11.27	
		1	2.45	-	2.75	6.73	
						41.92 m²	
	Deduction.						
	R.S.	1	1.60	-	2.70	4.32	
	Window do.	1	0.60	-	0.90	0.54	
						4.86 m²	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500719

Serial No. ....
Name of Work .... From .... To ....
Name of Contractor of nature of Agency ....
Date of commencement of work ....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Net Qty (-)	41.92 4.86	m² m²				
		37.06 m²					
	Rate . 194:30						7,200.75
	(12) Providing lime rendering for plastering to walls and ceiling including cost of materials labour curing complete as per specification.						

1) [illegible]
[illegible]

2) [illegible]
[illegible]

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Quantity vide item No. ⑩ and ⑪						
	(13.76 + 37.06) :					50.82 m²	
	Rate · 23:36						1187:15
⑬	Providing 18mm thick cement plaster in single coat with cement mortar 1:6 to brick masonry including of corners wherever required smooth rendering providing and removing scaffolding including cost & materials labour complete as per specification.						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500720

Serial No. ....
Name of Work .... From .... To ....
Name of Contractor of nature of Agency ....
Date of commencement of work ....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Out side plastering						
		2	4.75	-	2.75	26.12	
		1	2.48	-	2.75	6.73	
	Parapet.	2	4.75	-	0.60	5.70	
		2	2.45	-	0.60	2.94	
		2	4.35	-	0.60	5.22	
		2	2.05	-	0.60	2.46	

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MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		2	4.75	0.20	-	1.90	
		2	2.05	0.20	-	0.82	
						51.89	m²
	Deduction						
	R.S -	1	1.60	-	2.70	4.32	
20/8/20	c/f 20/8/2020 W -	1	0.60	-	0.90	0.54	
						4.86	m²
	Net area -	(51.89 -	4.86) =			47.03	m²
			limited to			42.03	m²
	Rate. 183:00						7691:49

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500721

Serial No. ....
Name of Work .... From............................ To............................
Name of Contractor of nature of Agency ....
Date of commencement of work ....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
(TW)	Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface excluding priming coat with distemper primer after through brooming the surface from mortar drops and other foreign matter including preparing the surface even and sand paper smooth complete as per specification. Quantity vide item no. ⑫						
	Rate. 66:30					50.82	m² 3369:36

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
(15)	Providing and finishing external walls in two coats with water proof cement paint of approved brand and shade to give an even shade after thoroughly brushing the surface to remove all dirt and loose powdered material free from mortar drops and other foreign matter cost of material labour complete as per specification.						
	Quantity vide item no. (13)					42.03 M²	3280:44
	Rate: 78:05						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500722

Serial No. ....

Name of Work .... From.......................... To..........................

Name of Contractor of nature of Agency ....

Date of commencement of work ....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
(16)	Providing and applying enamel metal paint two coats excluding priming coat. over new steel or other metal surface brushing to give an even shade after cleaning oil grease dirt and other foreign matter including cost of materials labour complete as per specification.						
	R.S.	2.25×1	1.60	–	2.70	9.72	
	W	2	0.60	–	0.90	1.08	
	Rate: 76:60					10.80 M²	827.28

1) [illegible]
[illegible]
2) [illegible]
([illegible]

MEASUREMENT BOOK

Date 1	Full description, etc. of work 2	Dimensions Number 3	 Length 4	 Breadth 5	 Depth 6	Contents 7	Reference to last Measurement 8
(17)	Providing and fixing special make glazed vitrified tiles (economic finish) of approved make quality and colour of size 600×600×10mm which fixed on existing flooring with a special ~~[illegible]~~ adhesive for flooring and skirting etc. complete including providing spacers of ~~[illegible]~~ internal removing [illegible] etc.. complete.						
	Flooring	1	4.35	2.05	–	8.91	
	Skirting	2	4.35	–	0.10	0.87	
		2	2.05	–	0.10	0.41	
	Steps	1	2.45	.	0.45	1.10	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500723

Serial No. ....
Name of Work .... From .... To ....
Name of Contractor of nature of Agency ....
Date of commencement of work ....

Date 1	Full description, etc. of work 2	Dimensions Number 3	 Length 4	 Breadth 5	 Depth 6	Contents 7	Reference to last Measurement 8
		1	2.45	–	0.25	0.61	
	Rate. 1111:70					11.90	m²
							13229:23
(18)	Providing and laying fixing cement base precast prepolished cement concrete designer tiles 25mm thick for flooring treads of steps and landing laid over a bed of 20mm thick cement mortar 1:3 finished [illegible]						

MEASUREMENT BOOK

Date 1	Full description, etc. of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	fixing with cement including cost of material including cutting grinding the edge to required round wherever required labour hiring complete as per specification.	1	3.00	1.60	–	4.80 m²	
							4865:28
	Rate. 1013:60						
⑲	Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top. fully openable as per approved drawing using 2 angle						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500721

Serial No. ....

Name of Work .... From .... To ....

Name of Contractor of nature of Agency ....

Date of commencement of work ....

Date 1	Full description, etc. of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	& 28 × 33 × 3 mm weighing 1.419 kg/mtr for both outer and inner frames and central mullion section of size 25 T × 3 mm weighing 2.28 kg/mtr duly providing section 19 × 19 × 3 mm weighing 0.839 kg/mtr for glazing & with not more than 3 c to c including providing and fixing 4 mm thick reeded glass with teak wood beading & frames size all steel section should be cut to length welded and accurately grinded smooth frames & rungs should be fenestrated and openings into the frames electrically all the						

1) [illegible]

2) [illegible]

MEASUREMENT BOOK

Date 1	Full description, etc. of work 2	Dimensions Number 3	 Length 4	 Breadth 5	 Depth 6	Contents 7	Reference to last Measurement 8
	Steel surface shall be thoroughly cleaned before ready mix paint of approved colour and make including cost of materials etc. complete.						
	Window . W.	1	0.90	·	0.60	0.54 m²	
							1780:75
	Rate . 3297:70						
(20)	Providing and fixing pull and push type rolling shutters of approved make out of 18 gauge 75mm wide cold rolled steel laths of convex corrugation with side guides and bottom rail with interlocking arrangements for steel laths by means of						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500725

Serial No. ....

Name of Work .... From .... To ....

Name of Contractor of nature of Agency ....

Date of commencement of work ....

Date 1	Full description, etc. of work 2	Dimensions Number 3	 Length 4	 Breadth 5	 Depth 6	Contents 7	Reference to last Measurement 8
	clips suspension shafts with high tension coil type springs, top covering mounted on specially designed pipe shafts with brackets plates, guide channels, lock fixing arrangement for inside and outside locking with push and pull operation complete including pulling hooks, hang handles with all fittings cost of materials complete as per specification.						
		1	2.00	-	2.70	5.40 m²	
							14437:98
	Rate . 2673:70						

1) [illegible]
[illegible]
2) [illegible]

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

(21) Providing fabricating assembling and fixing
in position aluminium partition using aluminium
section of mat finish or glossy finish in combination
of plain frame single frame and double frame
as per requirements for the frames of overall size
63.5mm x 38.1mm with thickness of 2mm having section
weight plain section 1.054 kg/m single frame
thickness 1.95mm section weight 1.094 kg/m double frame
thickness 1.9mm section weight 1.094 kg/m bottom member
114.3mm x 44.45mm thickness 3.18mm weight 1.094 kg
and bottom member aluminium louvers section of size
36.5mm x 34.93mm 1.45mm thickness section weighing
0.429 kg/m bottom portion provided with 12mm

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500726

Serial No. ....
Name of Work .... From .... To ....
Name of Contractor of nature of Agency ....
Date of commencement of work ....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

Prelaminated 0.429 kg/m bottom panel exterior grade
up to 0.90m having spacing of vertical members not exceeding
0.60 c to c section are required to use covering providing and
fixing 5.5mm thick plain glass in middle portion up to
to 2.13m and top panel with louvers section the frame and
fences and panels fixing with glazing x 19mm x 17.3mm of aluminium
0.9mm with 0.124 kg/m of fender fixed formation [illegible]
with ready material/ vertical members embedded in
the flooring for making [illegible] fixed. holes and fixing
with cement mortar with necessary opening for fixing 19mm

1) [illegible]
[illegible]
2) [illegible]

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	of standard size (excluding cost of door) all as per [illegible] thoroughly cleaned free from rust scale or dirt [illegible] cost of materials fixtures labour and T & P [illegible] necessary complete as per specification						
		1	3.00	-	2.10	6.30	m²
	Rate. 3021:20						19033:
(22)	Earth work excavation for pipe line trench including dewatering of trench up to a depth of [illegible] including shoring and strutting danger lighting and refilling the trench and ramming [illegible]						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500727

Serial No. ....
Name of Work .... From.................... To....................
Name of Contractor of nature of Agency ....
Date of commencement of work ....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	100 mm whenever necessary as directed in the following [illegible] manhole etc.. complete as per specification						
	As per the measurement recorded vide page no..	500	775			in	this MB.
						5.40 m³	878:04
	Rate. 162:60						
(23)	Providing and installation of size of [illegible] PVC pipes including cost of pipes and specials and [illegible]						

1) [illegible]
[illegible]
2) [illegible]
[illegible]

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

into trenches laying pipe to line level and gradient,
jointing joints (water proof) including jointing etc.
the pipe all round to a depth not less than 15 cm
with gravel or selected earth available from the
excavation etc. complete.

As per pre-measurement recorded vide
page no. 500775 to 500776 in orig MB

Rate · 135.80 — 20.00 RM — 2716.00

(24) Sand filling in wells complete as per drawing
and technical specification.

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500728

Serial No ....
Name of Work .... From .... To ....
Name of Contractor of nature of Agency ....
Date of commencement of work ....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

As per pre-measurement recorded vide
page no. 500776 in orig MB.

Rate · 2527.90 — 1.80 m³ — 4550.22

(25) Refilling the basement and pipe line trenches
with selected available earth got from trench excavation etc. in
ordinary condition in layers from the [illegible] including disposal
of the surplus earth with a heavy [illegible] 200 m³. etc. complete

MEASUREMENT BOOK

Date 1	Full description, etc. of work 2	Dimensions Number 3	Dimensions Length 4	Dimensions Breadth 5	Dimensions Depth 6	Contents 7	Reference to last Measurement 8
	as per specification. Quantity vide item No. ㉒						
	Rate. 52:75			Limited to		5.40m³ 3.60m³	284:85
㉖	Providing and fixing in position brass gate valve with CI wheel of approved quality (screw end) 65mm nominal bore including cost of all material labour and hire of equipments complete as per specification. with all lead						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500729

Serial No. ....
Name of Work .... From .... To ....
Name of Contractor of nature of Agency ....
Date of commencement of work ....

Date 1	Full description, etc. of work 2	Dimensions Number 3	Dimensions Length 4	Dimensions Breadth 5	Dimensions Depth 6	Contents 7	Reference to last Measurement 8
		2	-	-	-	2 Nos	
	Rate. 2361:00						4722:00
㉗	10000 LPH RO Plant Raw Water Pump Quantity 1 No. Type Centrifugal Mono Block MOC and Make KBL Motor Rating 0.75 HP Pressure Sand Filter, Quantity 1 No. Capacity 1000 LPH BN MOC and Make & Housing KBL MOC and Make & Cartridge [illegible] Capacity 1000 LPH MOC and Make						

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions Number 3	Dimensions Length 4	Dimensions Breadth 5	Dimensions Depth 6	Contents 7	Reference to last Measurement 8

2 Vessel MOC Diameter 400 mm Type of Valve
Single Multiport media Filters Bed and Sand Filte
Cartridge Filter Quantity 1 Set Filter Rating
5 Microns Size 20 Long Antiscalant Dosing Pump
Quantity 1 Set Type Electronic magnetic Capacity 1.8
LPH at 4 Bar High Pressure Pump Quantity 1 No. wi
1700 LPH Type of Pump Vertical Multistage Centrifu
Pump MOC SS304 Motor Rating 2 HP 3 Phase Mem
Pressure 12 Kg/cm Make Lubi Reverse Osmosis Sys
Quantity 1 No. Capacity 1000 LPH Module Type Membrane
Specification (Polymide) Make & Membrane Nu
Sterilizer Max Treatment Flow 1 m3/hr no

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500780

Serial No. ....
Name of Work .... From................................ To..................................
Name of Contractor of nature of Agency ....
Date of commencement of work ....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Dimensions Length 4	Dimensions Breadth 5	Dimensions Depth 6	Contents 7	Reference to last Measurement 8

2 Lamps 1 No. Wattage 39 W Efficiency 99.99 % Materia
of Construction SS 304 Product Water Quality Appearance
Crystal Clear Aside by the CSO Standard SS Tank 304 Gra
with 16 Gauge 2000 liters Capacity 304 Grade to Gauge
SS Pipe (With Stream Valve) 25 FL Coin Booth Dispensin
Unit of 5 liters & 20 liters Separately Raw Water Stora
Tank Quantity for Storage of Raw Water Type 1 No.
Two Three Layered PE Tanks White Interior in Colo
Made from the Virgin Material & Good Quality Su

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	for the purpose of providing for use drinking portable water 5000 litre capacity.						
	Rate. 815926:00					1 No.	81592
(28)	Supplying and wiring a looping loop system in existing PVC conduit/casing capping using 1100 grade copper conductor flexible multistrand FRLS PVC insulated 2x1.5 sq mm cable conforming to IS with a 6 amps flush type SP control switch						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500731

Serial No. ....

Name of Work .... From.......................... To..........................

Name of Contractor of nature of Agency ....

Date of commencement of work ....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	be fixed on the printing plastic sheet / gang box the other end of the wires shall be terminated with suitable loose length in a wooden PVC board socket connector for the each outlet group A medium point above 3.0 mtr up to 6.0 mtr from tapping point to outlet via switch etc. Complete and as per the direction of the engineer incharge of the work.						
	Rate. 212:10	6	-	-	-	6 points	1272:00

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MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
(33)	Supplying 4mm single plastic sheet with necessary notches for fixing switches regulators etc. and fixing wooden or metal box recessing of screw etc. complete as per specification.					33333	sq.cm
	Rate . 0:22						7333:26
(34)	Extra for grooving in brick wall cc floor to the suitable depth for concealing of conduit GI pipe and plastering finishing up to wall surface complete up to 25mm conduit in brick wall etc. complete						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500733

Serial No. ....

Name of Work .... From .... To ....

Name of Contractor of nature of Agency ....

Date of commencement of work ....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		1	20.00	-	-	20.00	MW
	Rate . 18.10						362:00
(35)	Supplying heavy guage PVC conduit pipe 19/20mm dia 2mm thick with suitable size steel metal junction boxes adhesive paste etc. by groove cutting in the wall and fixing by spacing @ 75 hooks and cement plaster the wall surface and finish with 1:8 slurry complete.						
	Rate . 48:00	1	20.00	-	-	20.00	MW 970:00

1) [illegible]

2) [illegible]

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
(36)	Supplying and fixing PBBC/Bracket type straight or slant batten holder and wiring with 600/230 lamps etc.. Complete and as per directions of the Engineer incharge of the work.						
		4	-	-	-	4 Nos	
	Rate. 76:10						304:40
(37)	Supplying pass type fluorescent tube light fitting of 2 suitable for 4 watts fluorescent tube fitting made out of MS sheet and stove enamelled with HP electronic ballast tube light starter holders mounted on double fold type						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500734

Serial No. ....

Name of Work .... From.......................... To..........................

Name of Contractor of nature of Agency ....

Date of commencement of work ....

Date 1	Full description, etc, of work 2	Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Short type suitable for use on 230 volts AC supply including T5 lamps etc. complete and as per direction of the Engineer in charge of the work.						
		4	–	–	–	4 Nos	
	Rate. 511:00						2044:00
(38)	Wiring for lighting power circuit using one 8 FRLS PVC insulated 1100V grade multi strand copper with low conductor resistance single core wire in open [illegible]						

1) [illegible]
[illegible]

2) [illegible]
[illegible]

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	System of wiring with stranded IS 694-1990 conforming to HTP & Group A 1-5 Sq mm etc. complete as per specification.	1	15.00	–	–	15.00 Mtr	
	Rate · 16:00						240:00
(39)	Supplying and fixing cast aluminium general or oblong type fuse head fittings with GI wire guard glass cover with 60/100 watts 230 V GLS lamps etc. complete as per specification	8	–	–	–	8 Nos	5168:00
	Rate · 646:00						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500735

erial No. ....

ame of Work .... From........................ To........................

ame of Contractor of nature of Agency ....

ate of commencement of work ....

ate	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
(40)	Supplying fixing wiring earth electrode for grounding conductors cut outs and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipes 2.00 m long buried in a pit the pit should be filled with equal proportion of salt and charcoal 100 mm all around the pipe to complete after the connection from the pipe to the earth etc. is to be established through GI wire of size as per specification	1	–	–	–	1 No.	2359:00
	Rate · 2359:00						

MEASUREMENT BOOK

Date 1	Full description, etc. of work 2	Dimensions Number 3	 Length 4	 Breadth 5	 Depth 6	Contents 7	Refere to la Measu 8
(41)	Supplying & 1.1 KV LT cable having Aluminium conductor PVC insulated extruded inner sheath galvanised steel strip (except 20 x 10 sq mm which armoured) conforming to IS 3975.1990 (as per indicated in ATP) and extruded PVC outer sheath armoured cable with ... IS 1554 Part 1 198 and conforming to ATP & ... etc. complete.	1	25.00	-	-	25.00	Mtr
	Rate. 121:45						3036.1
(42)	Labour charges for laying 2.1.1 KV class cable in existing trench / GI pipe / stone work						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500736

rial No ....

ame of Work .... From .... To ....

ame of Contractor of nature of Agency ....

ate of commencement of work ....

ate	Full description, etc. of work 2	Dimensions Number 3	 Length 4	 Breadth 5	 Depth 6	Contents 7	Reference to last Measurement 8
	on wall / on pole as required in existing trench duct etc. complete and as per direction of the Engineer in charge of the work.	1	25.00	-	-	25.00	Mtr
	Rate. 8:30						207:50
(43)	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidation etc. complete for crossing road surface etc. complete						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	No. of of
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
	and as per direction of the Engineer						in chief c
	of the work.						
	Rate. 242:00	1	–	–	–	1 No.	24
	BESCOM Deposit For Borewell						
	Application Fees. Rs 1 x 100:00						10
	Meter Purchase Charge Rs. 1 x 2211:00						2211
	Deposit Charge Rs 1 x 6860:00						686

M. A. R. 57 (Rule 116)
Measurement Book

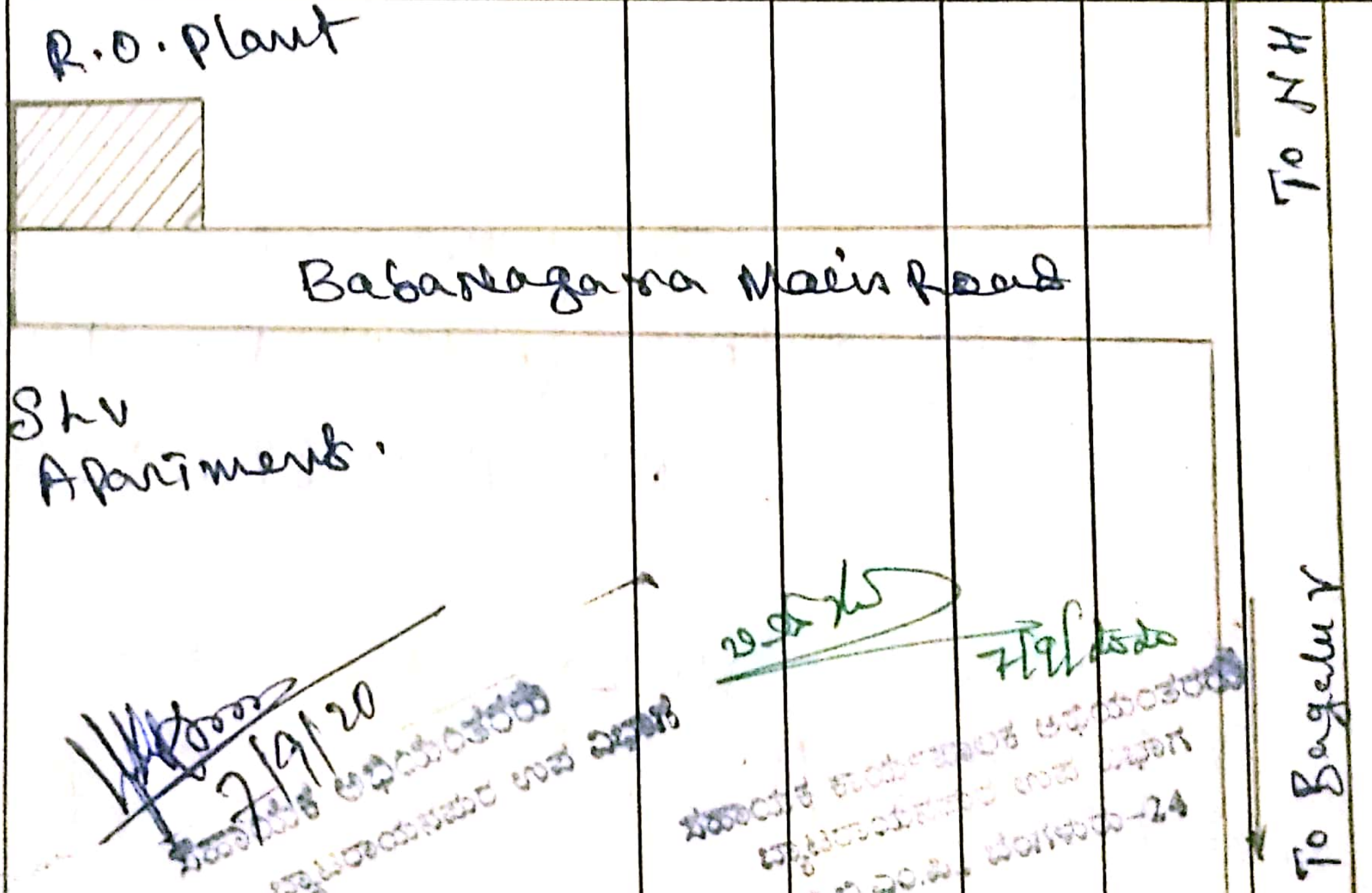
No. B 500738

o. ....
f Work .... From................................ To................................
of Contractor of nature of Agency ....
f commencement of work ....

Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
			Total	Amount	Rs.	113592:00
	Add	12%.	Applicable	GST	Rs.	136031:00
7/9/20			Total	Amount	Rs.	1269623:0
Certificate. ①	Certified	that the	work done	satisfactory		
②	This is	the amount	has not	been claimed		
7/9/20	in any	previous	bill.			7/9/2020

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8


R.O. Plant
Babanagara Main Road
SLV Apartments.
To NH 7
To Bagalur

7/9/20

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.

7/9/20

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24